

DERWENT-ACC-NO: 1998-580999
DERWENT-WEEK: 199849
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TITLE: Use of 3,4-polyethylene:di:oxygen:thiophene with constant, adjustable conductivity in copier, facsimile equipment or printer - is more effective than ionic compounds and gives smooth surface on e.g. plastics of metal photoconducting drum of laser printer or copier

PATENT-ASSIGNEE: ANONYMOUS[ANON]

PRIORITY-DATA: 1998RD-0414040 (September 20, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
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RD 414040 A	October 10, 1998	G
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APPLICATION-DATA:

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RD 414040A	N/A	1998RD-0414040
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INT-CL (IPC): G03G000/00

ABSTRACTED-PUB-NO: RD 414040A

BASIC-ABSTRACT: 3,4-Polyethylenedioxythiophene (I) ('Baytron' P; RTM) is used as conducting or semiconducting layer in the production of copiers, facsimile equipment and printers. Other conductive polymers, e.g. polypyrrole, polyaniline or polythiophene, alone or in combination with (I), can also be used.

USE - The layer is useful e.g. on the photoconducting drums of laser printers, copiers etc. with drums of plastics or metals, e.g. aluminium, directly on the drum and/or as intermediate layers in other photoconductor s.

ADVANTAGE - The layer gives a smooth surface. Its conductivity can be varied

between 10⁻⁸ and 1000 S/cm and the surface resistance can be adjusted from 0.1 to 10¹⁰ Ohm⁻². The constant conductivity, independent of atmospheric humidity of these conductive polymers makes them better than ionic compounds normally used

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

POLYETHYLENE DI OXY THIOPHENE CONSTANT ADJUST CONDUCTING COPY
FACSIMILE

EQUIPMENT PRINT MORE EFFECT ION COMPOUND SMOOTH SURFACE PLASTICS
METAL

PHOTOCONDUCTIVE DRUM LASER PRINT COPY

DERWENT-CLASS: A26 A89 G08 P84 S06 T04 W02

CPI-CODES: A05-H; A09-A03; A12-L05D; G06-A07; G06-F06; G06-F07;

EPI-CODES: S06-A01B; T04-G04; W02-J;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; D31 D23 D22 D75 D43 D50 F00 ; H0293 ; P0964*R F34 D01

Polymer Index [1.2]

018 ; P1412 H0293 P0044 D23 D22 D41 D51 D56 D59 F07

Polymer Index [1.3]

018 ; P1503 H0293 P0044 D01 D23 D22 D43 D51 D56 D59 F00

Polymer Index [1.4]

018 ; G4002 G0191 G0102 G0022 D01 D10 D12 D18 D19 D31 D51 D53
D58

D60 D76 D88 F62 ; H0000 ; H0011*R ; P1741

Polymer Index [1.5]

018 ; ND01 ; Q9999 Q8628 Q8617 Q8606 ; Q9999 Q7114*R ;

K9676*R ;

K9483*R ; K9745*R ; N9999 N7045 N7034 N7023 ; N9999 N7067

N7034

N7023 ; N9999 N5743 ; N9999 N7147 N7034 N7023 ; B9999 B3350

B3190

; B9999 B3269 B3190 ; B9999 B5301 B5298 B5276

Polymer Index [1.6]

018 ; G2813*R D01 D73 F47 Si 4A ; A999 A033 ; A999 A033

Polymer Index [1.7]

018 ; A999 A157*R

SECONDARY-ACC-NO: